



Docket No.: G0744.70031US03
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Li-How Chen et al.
Serial No.: 10/082,018
Confirmation No.: 8070
Filed: February 20, 2002
For: NOVEL MODIFIED MSP-1 NUCLEIC ACID SEQUENCES AND
METHODS FOR INCREASING mRNA LEVELS AND PROTEIN
EXPRESSION IN CELL SYSTEMS
Examiner: D. Crouch
Art Unit: 1632

Express Mail Label No. EV743784300US
Dated: March 21, 2007

INFORMATION DISCLOSURE STATEMENT (IDS)

Mail Stop 313(c)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action after the filing of a Request for Continued Examination under 37 CFR 1.114 (37 CFR 1.97(b)(4)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

The Applicant would like to bring to the Examiner's attention the enclosed search report or other communication from a corresponding or other International or Foreign National Application.

<u>Serial No.</u>	<u>Mailing Date</u>	<u>Type(s) of Communication</u>	<u>Docket No.</u>
PCT/US98/22225	July 15, 1999	International Search Report	G0744.70037WO00
PCT/US98/22226	July 15, 1999	International Search Report	G0744.70031WO00

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

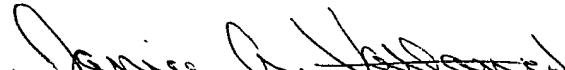
The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Application Number	Filing Date	Inventor(s)	Docket No.
09/175,683	10-20-1998	Chen et al.	G0744.70037US02

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 23/2825, under Docket No. G0744.70031US03. A duplicate copy of this paper is enclosed.

Respectfully submitted,



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PTO/SB/08A/B (09-06)
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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/082,018-Conf. #8070
				Filing Date	February 20, 2002
				First Named Inventor	Li-How Chen
				Art Unit	1632
				Examiner Name	D. Crouch
Sheet	1	of	2	Attorney Docket Number	G0744.70031US03

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,873,316	10-10-1989	Meade et al.	
		US-5,304,489	04-19-1994	Rosen	
		US-5,530,177	06-25-1996	Bleck et al.	
		US-5,643,578	07-01-1997	Robinson et al.	
		US-5,856,178	01-05-1999	White et al.	
		US-6,130,062	10-10-2000	Milland et al.	
		US-6,593,463	07-15-2003	Chen et al.	
		US-2005-0071890-A1	03-31-2005	Chen et al.	
		US-2005-0235371-A1	10-20-2005	Chen et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		EP-0264166	04-20-1988	Integrated Genetics Inc	
		WO-99/20774	04-29-1999	Genzyme Transgenics Corporation	
		WO-99/20766	04-29-1999	Genzyme Transgenics Corporation	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with a single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		GENBANK Submission; NIH/NCBI, Accession No. L48364. Lukashov et al. February 28, 1996.			
		DAME et al., Current status of the Plasmodium falciparum genome project. Mol Biochem Parasitol. 1996 Jul;79(1):1-12.			
		D'ORSO et al., TcUBP-1, a developmentally regulated U-rich RNA-binding protein involved in selective mRNA destabilization in trypanosomes. J Biol Chem. 2001 Sep 14;276(37):34801-9. Epub 2001 Jul 2.			
		GARDNER et al., DNA vaccines against malaria: immunogenicity and protection in a rodent model. J Pharm Sci. 1996 Dec;85(12):1294-300.			
		GRAVES et al., Comparison of the cost-effectiveness of vaccines and insecticide impregnation of mosquito nets for the prevention of malaria. Ann Trop Med Parasitol. 1998 Jun;92(4):399-410.			
		GRAVES et al., Vaccines for preventing malaria. Cochrane Database Syst Rev. 2003;(1):CD000129.			

Examiner Signature	Date Considered
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Substitute for form 1449/PTO				<i>Complete if Known</i>	
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				Examiner Name	D. Crouch
Sheet	2	of	2	Attorney Docket Number	G0744.70031US03

	GUTIERREZ et al., Expression of a bovine kappa-CN cDNA in the mammary gland of transgenic mice utilizing a genomic milk protein gene as an expression cassette. Transgenic Res. 1996 Jul;5(4):271-9.	
	JENKINS et al., Evolution of base composition and codon usage bias in the genus Flavivirus. J Mol Evol. 2001 Apr;52(4):383-90.	
	KALINNA et al., DNA vaccines for parasitic infections. Immunol Cell Biol. 1997 Aug;75(4):370-5.	
	LIEBHABER et al., mRNA stability and the control of gene expression. Nucleic Acids Symp Ser. 1997;(36):29-32.	
	MARTIN et al., Total synthesis and expression in Escherichia coli of a gene encoding human tropoelastin. Gene. 1995 Mar 10;154(2):159-66.	
	NUIJENS et al., Characterization of recombinant human lactoferrin secreted in milk of transgenic mice. J Biol Chem. 1997 Mar 28;272(13):8802-7.	
	PERLAK et al., Modification of the coding sequence enhances plant expression of insect control protein genes. Proc Natl Acad Sci U S A. 1991 Apr 15;88(8):3324-8.	
	PRAPUNWATTANA et al., Chemical synthesis of the Plasmodium falciparum dihydrofolate reductase-thymidylate synthase gene. Mol Biochem Parasitol. 1996 Dec 2;83(1):93-106.	
	SENIOR et al., DNA vaccine shows promise for malaria. Mol Med Today. 1999 Jan;5(1):2-3.	
	SHANI et al., Expression of human serum albumin in the milk of transgenic mice. Transgenic Res. 1992 Sep;1(5):195-208.	
	URDEA et al., Chemical synthesis of a gene for human epidermal growth factor urogastrone and its expression in yeast. Proc Natl Acad Sci U S A. 1983 Dec;80(24):7461-5.	
	WEBER et al., Analysis of sequences from the extremely A + T-rich genome of Plasmodium falciparum. Gene. 1987;52(1):103-9.	
	WESSELING et al., Nucleotide sequence and deduced amino acid sequence of a Plasmodium falciparum actin gene. Mol Biochem Parasitol. 1988 Jan 15;27(2-3):313-20.	
	WU et al., Transfection of Plasmodium falciparum within human red blood cells. Proc Natl Acad Sci U S A. 1995 Feb 14;92(4):973-7.	
	ZIENTZ et al., Genome interdependence in insect-bacterium symbioses. Genome Biol. 2001;2(12):REVIEWS1032. Epub 2001 Nov 22.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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